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Wrought-Copper and Wrought-Bronze Solder-Joint Fittings

How to Find Papers Presented at 1963 ASME Meetings

THE technical programs of the meetings of the Society and of its Professional Divisions have been published in *Mechanical Engineering* and may be located by consulting the index on pages SR-93 to SR-121. Many of these papers will be published in *Mechanical Engineering* or the *Transactions* and may be located by reference to the indexes of these publications.

Currently Available ASME Publications

ASME members may purchase most of the publications listed below at a 20 percent discount. Handling and mailing charges are added to price when payment does not accompany order.

AMERICAN STANDARDS

Bolt, Nut, and Rivet Proportions

Glossary of Terms for Mechanical Fasteners (1962), $4.00
Hexagon and Slotted Head Cap Screws—Square Head Set Screws—Slotted Headless Set Screws (B18.6.2—1956), $2.00
Large Rivets (B18.4—1960), $2.00
Miniature Screws (B18.11—1961), $2.00
Plow Bolts (B18.9—1958), $2.00
Round Head Bolts (B18.5—1952; reaffirmed 1959), $2.00
Slotted and Recessed Head Tapping Screws and Metallic Drive Screws (B18.6.4—1958), $5.00
Slotted and Recessed Head Wood Screws (B18.6.1—1961), $2.00
Slotted and Recessed Head Machine Screws and Machine Screw Nuts (B18.6.3—1962), $4.00
Small Solid Rivets (B18.1—1955), $2.00
Socket Cap Shoulder and Socket Set Screws (B18.3—1961), $3.00
Square and Hexagon Bolts and Nuts and Lag Bolts (B18.2—1960), $3.50
Track Bolts and Nuts (B18.10—1963), $2.00
High-Strength, High-Temperature Internal Wrenching Bolts (B18.8—1950; reaffirmed 1958), $1.50

Gear Design, Dimensions, Pipe Inspection

Design for Fine-Pitch Worm Gearing (B6.9—1956), $1.50
Dimensioning and Notes (Y14.5—1963), $2.00
Fine-Pitch Straight Bevel Gears (B6.8—1950), $1.50
Gear Nomenclature (B6.10—1954), $1.50
Inspection of Fine-Pitch Gears (B6.11—1956), $3.00
Gear Tolerances and Inspection (B6.6—1946), $1.50
Letter Symbols for Gear Engineering (B6.5—1954), $1.50
Spur Gear Tooth Form (B6.1—1932), $1.50
System for Straight Bevel Gears (B6.13—1955), $1.50
20-Degree Involute Fine-Pitch System for Spur and Helical Gears (B6.7—1956), $1.50
Nomenclature for Gear Tooth Wear and Failure (B6.12—1954), $1.50

Piping, Pipe Fittings, Pipe Threads

Air Gaps and Backflow Preventers in Plumbing Systems (A40.4—1943) $2.00
Brass Fittings for Flared Copper Tubes (B16.26—1958), $1.50
Bronze Flanges and Flanged Fittings for 150 and 300 Lb (B16.24—1962), $1.50
Brass or Bronze Screwed Fittings for 125 Lb (B16.15—1958), $2.00
Brass or Bronze Screwed Fittings for 250 Lb (B16.17—1949; reaffirmed 1953), $1.50
Bronze Flanges and Flanged Fittings (1962), $1.50
Butt-Welding Ends (B16.25—1958), $1.50
Cast-Bronze Solder-Joint Pressure Fittings (B16.18—1963), $2.00
Cast Bronze Solder-Joint Drainage Fittings (B16.23—1960), $2.50
Cast-Iron Pipe Flanges and Flanged Fittings for 25 Lb (B16b2—1931; reaffirmed 1952), $1.50
Cast-Iron Pipe Flanges and Flanged Fittings, Class 125 (B16.1—1960), $2.00
Cast-Iron Pipe Flanges and Flanged Fittings, Class 250 (B16.2—1960), $2.00
Cast-Iron Pipe Flanges and Flanged Fittings, for Refrigerant Piping, Class 300 (B16.16—1948; reaffirmed 1952), $1.50
Cast-Iron Pipe Flanges and Flanged Fittings for 800 Lb Psig Hydraulic Pressure (B16b1—1931; reaffirmed 1952), $1.50
Cast-Iron Soil Pipe and Fittings (A40.1—1935), $2.00
Cast-Iron Screwed Fittings for 125 and 250 Lb (B16.4—1949; reaffirmed 1953), $2.00
Cast-Iron Screwed Drainage Fittings (B16.12—1953), $1.50
Face-to-Face and End-to-End Dimensions of Ferrous Valves (B16.10—1957), $2.00
Ferrous Plugs, Bushings, Lock Nuts, With Pipe Threads (B16.14—1949; reaffirmed 1953), $1.50
Malleable-Iron Screwed Fittings, 150 Lb (B16.3—1951; reaffirmed 1958), $2.00
Malleable-Iron Screwed Fittings, 300 Lb (B16.19—1951; reaffirmed 1958), $1.50
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Dryseal Pipe Threads (B2.2—1960), $4.00
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Ring-Joint Gaskets and Grooves for Steel Pipe Flanges (B16.20—1963), $1.50
Scheme for the Identification of Piping Systems (A13.1—1956), $1.50
Spindle Flanges for Precision Boring Machines (1961), $1.50
Steel Pipe Flanges and Flanged Fittings for 150, 300, 400, 600, 900, 1500 and 2500 Lb, Including References to Valves (B16.5—1961), $4.00
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Steel Butt-Welding Fittings (B16.9—1958), $2.00
Steel-Socket Welding Fittings (B16.11—1946; reaffirmed 1952), $1.50
Threaded Cast-Iron Pipe for Drainage, Vent, and Waste Services (A40.5—1943), $1.50
Wrought-Copper and Wrought-Bronze Solder-Joint Fittings (B16.22—1963), $1.50
Wrought-Steel and Wrought-Iron Pipe (B36.10—1959), $2.00

Symbols, Abbreviations, Drafting Practice, Charts

Abbreviations for Scientific and Engineering Terms (Z10.1—1941), $1.00
Illustrations for Publication and Projection (Y15.1—1959), $2.00
Time Series Charts (Y15.2—1960), $4.50
Drafting Standards Manual
Section 1, Size and Format (Y14.1—1957), $1.50
Section 2, Line Conventions, Sectioning, and Lettering (Y14.2—1957), $2.00
Section 3, Projections (Y14.3—1957), $2.00
Section 4, Pictorial Drawings (Y14.4—1957), $2.00
Section 5, Dimensioning and Notes (Y14.5—1957), $2.00
Section 6, Screw Threads (Y14.6—1957), $2.00
Section 7, Gears, Splines, and Serrations (Y14.7—1958), $2.00
Section 9, Forgings (Y14.9—1958), $2.00
Section 10, Metal Stampings (Y14.10—1959), $2.00
Section 11, Plastics (Y14.11—1958), $2.00

Section 14, Mechanical Assemblies (Y14.14—1961), $2.00
Section 15, Electrical Diagrams for Electronics and Communications (Y14.15—1960), $3.00
Section 17, Fluid Power Diagrams (Y14.17—1959), $2.00
Graphical Symbols for Fluid Power Diagrams (Y32.10—1958), $1.50
Graphical Symbols for Welding (Y32.3—1959), $3.00
Graphical Symbols for Plumbing (Y32.4—1955), $1.00
Graphical Symbols for Pipe Fittings, Valves, and Piping (Z32.2.3—1949; reaffirmed 1953), $1.00
Graphical Symbols for Heating, Ventilating, and Air Conditioning (Z32.2.4—1949), $1.50
Graphical Symbols for Heat—Power Apparatus (Z32.2.6—1950; reaffirmed 1956), $1.00
Graphical Symbols for Process Flow Diagrams in Petroleum and Chemistry Industries (Y32.11—1961), $1.50
Guide for Selecting Greek Letters Used as Letter Symbols for Engineering Mathematics (Y10.17—1961), $1.50
Metallizing Symbols (Y32.12—1960), $1.50
Nondestructive Testing Symbols (1962), $1.00
Letter Symbols for Chemical Engineering (Y10.12—1955; reaffirmed 1961), $2.00
Letter Symbols for Hydraulics (Y10.2—1958), $1.50
Letter Symbols for Heat and Thermodynamics (Y10.4—1957), $1.50
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Letter Symbols for Aeronautical Sciences (Y10.7—1954), $2.50
Letter Symbols for Structural Analysis (Y10.8—1962), $1.50
Letter Symbols for Meteorology (Y10.10—1953), $1.50
Letter Symbols for Acoustics (Y10.11—1953; reaffirmed 1959), $1.50
Letter Symbols for Petroleum Reservoir Engineering and Electric Logging (Y10.15—1958), $2.00
Letter Symbols for Radio (Y10.9—1953), $1.50
Letter Symbols for Rocket Propulsion (Y10.14—1959), $2.50

Standards—Miscellany

Glossary of Terms in Nuclear Science and Technology (N1.1—1957), $5.00
Indicating Pressure and Vacuum Gages (B40.1—1939; reaffirmed 1953), 1.50
Preferred Thickness for Uncoated Thin Flat Metals (Under 0.250 In.) (B32.1—1952; reaffirmed 1959), $1.50
Preferred Standards for Large 3600-RPM 3-Phase 60-Cycle Condensing Steam Turbine Generators and Standard Specification Data for the Generators (1952) (ASME Standard No. 100—1952), $3.00
One-Piece Metallic Piston Rings (ASME Standards No. 104—1954), $1.50
Operation and Flow Process Charts (ASME Standard No. 101—1949), $2.00
Shaft Couplings (B49.1—1947), $1.50
Lock Washers (B27.1—1958), $2.00
Plain Washers (B27.2—1958), $1.50
Surface Texture (B46.1—1962), $2.50
Self-Appraisal Form for Use of Industrial Plants (ASME Standard No. 102—1947), $2.00
Pallet Sizes (MH1.1—1959), $2.00
Specifications for Multiple V-Belt Drives (B55.1—1961), $2.00
Specifications for Freight Containers (MH.5.1—1962), $1.50
Plant Layout Templates and Models (ASME Standards No. 103—1949), $1.50
Preferred Standards for the Presentation of Frequency Response Data (ASME Standard No. 107—1955), $1.00
Terminology for Automatic Control (1963), $3.00
Woodruff Keys, Keyslots, and Cutters (B17f—1930; reaffirmed 1955), $1.50

Small Tools and Machine-Tool Elements

Drill Drivers (B5.27—1959), $1.50
Machine Tapers (B5.10—1963), $3.00
Milling Cutters (B5.3—1960), $3.00
Reamers (B5.14—1959), $2.50
Taps—Cut and Ground Threads (B5.4—1959), $2.50
Accuracy of Engine and Tool Room Lathes (B5.16—1952), $1.50
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Chuck and Chuck Jaws (B5.8—1954; reaffirmed 1959), $2.00
Circular and Dovetailed Forming Tool Blanks (B5.7—1954), $2.00
Designation and Working Ranges of Grinding Machines (B5.32 and 33—1953), $1.50
Driving and Spindle Ends for Portable Air and Electric Tools (B5.38—1958), $1.50
Inserted Blade Milling Cutter Bodies (B5.23—1958), $1.50
High Speed Steel and Cast Nonferrous Single Point Tools and Tool Holders (B5.29—1959), $1.50
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Life Tests of Single Point Tools (B5.19—1946; reaffirmed 1953), $1.50
Life Tests for Single Point Tools of Sintered Carbide (B5.34—1956), $1.50
Machine Pins (B5.20—1958), $1.50
Marking for Grinding Wheels (B5.17—1958), $1.50
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Punch and Die Sets for Two-Post, Punch Press Tools B5.25—1950), $1.50
Rotating Air Cylinders and Adapters (B5.5—1959), $1.00
Single Point Tools and Tool Posts (B5.22—1950), $1.50
Spindle Noses and Arbors for Milling Machines (B5.18—1960), $1.50
Spindle Noses and Adjustable Adapters for Multiple Spindle Drilling Heads (B5.11—1954), $1.50
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Straight Cut-Off Blades for Lathes and Screw Machines (B5.21—1949), $1.50
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Acme Screw Threads (B1.5—1952), $2.25
Stub Acme Screw Threads (out of print—under revision)
Buttress Screw Threads (B1.9—1953), $1.50
Class 5 Interference-Fit Thread (B1.12—1963), $1.50
Fire Hose Coupling Screw Thread (B26—1925; reaffirmed 1953), $1.50
Hose Coupling Screw Threads (B33.1—1935; reaffirmed 1947), $1.50
Microscope Objective Threads (B1.11—1958), $1.50
Nomenclature, Definitions, and Letter Symbols for Screw Threads (B1.7—1949; reaffirmed 1953), $1.50
Screw Thread Gages and Gaging (out of print—under revision)
Unified Screw Threads (B1.1—1960), $5.00
Unified Miniature Screw Threads (B1.10—1958), $1.50
Preferred Limits and Fits for Cylindrical Parts (B4.1—1955), $1.50
ASME Screw Thread Manual (1952), $2.50

ASME BOILER AND PRESSURE CODE

1962 Editions of (with Summer and Winter 1963 Addenda):
Power Boilers (Section I), $9.00
Material Specifications (Section II), $17.00
Low-Pressure Heating Boilers (Section IV), $3.00
Suggested Rules for Care of Power Boilers (Section VII), $3.50
Unfired Pressure Vessels (Section VIII), $10.00
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Interpretations and Addenda to the ASME Boiler and Pressure Vessel Code, $10.00 annually

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Test Codes for

Atmospheric Water Cooling Equipment (1958), $4.00
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Determining Dust Concentrations in a Gas Stream (1957), $4.00
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Displacement Compressors, Vacuum Pumps, and Blowers (1954), $4.00
Displacement Pumps (1962), $3.00
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Feedwater Heaters (1955), $3.00
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Gas Producers and Continuous Gas Generators (1958), $4.00
Gas Turbine Power Plants (1953), $3.00
Hydraulic Prime Movers (1949), with Index Method of Testing (1953), $4.00
Internal Combustion Engines (1957), $2.50
Reciprocating Steam-Driven Displacement Pumps (1949), $1.00
Reciprocating Steam Engines (1949), $2.00
Safety and Relief Valves (1958), $4.00
Solid Fuels (1954), $4.00
Speed-Governing Systems for Internal Combustion Engine-Generator Units (1962), $3.00
Speed-Governing Systems for Steam-Turbine Generator Units (1958), $4.00
Stationary Steam Generating Units (1946), $4.00
Steam Condensing Apparatus, (1955), $4.00
Steam Turbines (1949), $5.50
Appendix to Steam Turbine Test Code (1949), $4.00
General Instructions (1945), $2.50
Definitions and Values (1945), $3.00

Instruments and Apparatus

Part 1—General Considerations (1935), $2.00
Part 2—Pressure Measurement (1941), $2.00
Part 3—Temperature Measurement—Chapter 1-9 (1961), $6.00
Part 5—Flow Measurement—Chapter 4 (1959), $6.00
Part 6—Electrical Measurement for Power Circuits (1955), $3.50
Part 7—Measurement of Shaft Horsepower (1961), $4.00
Part 8—Measurement of Indicated Horsepower (1960), $2.00
Part 10—Flue and Exhaust Gas Analyses (1936), $2.00
Part 11—Quality and Purity of Steam (1959), $4.00
Part 12—Measurement of Time (1958), $2.00
Part 13—Measurement of Rotary Speeds (1961), $3.00
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Part 16—Density Determinations (1931), $1.00
Part 17—Determination of the Viscosity of Liquids (1931), $2.50
Part 20—Smoke-Density Determinations (1945), $2.00
Part 21—Leakage Measurement (1942), $2.50

SAFETY CODES

Code for Pressure Piping (B31.1—1955), with 1962 Addendum, $5.00
Petroleum Refinery Piping (B31.3—1959) with 1962 Addendum, $4.00
Oil Transportation Piping (B31.4—1959), with 1962 Addendum, $4.00
Gas Transmission and Distribution Piping Systems (B31.8—1963), $4.00
Moving Walks (1962), $2.00
National Plumbing Code (A40.8—1955), $4.00
Conveyors, Cableways, and Related Equipment (B20.1—1957), $2.50
Cranes, Derricks, and Hoists (B30.2—1943; reaffirmed 1952), $4.00
Aerial Passenger Tramways (B77.1—1960), $2.80
Safety Code for Elevators (A17.1—1960), $5.00
Practice for Inspection of Elevators (A17.2—1960), $4.00
Safety Code for Jacks (B30.1—1943; reaffirmed 1952), $1.50
Safety Code for Powered Industrial Trucks (B56.1—1959), $2.00
Safety Code for Manlifts (A90.1—1949; reaffirmed 1956), $1.50
Safety Code for Mechanical Power-Transmission Apparatus (B15.1—1953; reaffirmed 1958), $3.00

BOOKS AND REPORTS

Problems and Control of Air Pollution (1955), $7.50
Bibliography on Flow of Bulk Materials From Storage (1962), $2.50
Bibliography on Gas Turbines 1896–1948 (1962), $7.50
Compressor Stall, Surge, and Systems Response (1960), $3.50
Creative Engineering (1957), $1.00
Diesel Fuel Oils (1948), $3.50
Definitions of Occupational Specialties in Engineering (1952), $3.50
1956 Design Engineering Conference Proceedings, $5.00
1957 Design Engineering Conference Proceedings, $5.00
1959 Design Engineering Conference Proceedings, $5.00
1960 Design Engineering Conference Proceedings, $5.00
1961 Design Engineering Conference Proceedings, $10.00
Design Data and Methods (1953), $4.00
Diaphragm Characteristics, Design and Terminology (1958), $4.50
Directory of Consulting Engineers (1957), $2.50
Dynamics of Automatic Controls (1948), $6.00
Experimental Techniques in Shock & Vibration (1962), $8.00

Fifty Years' Progress in Management (1960), $12.50
Flow Measurement—PTC 19.5.4 1959, $6.00
Flowmeter Computation Handbook (1961), $10.00
Technical Data on Fuel—1961 $10.00 to ASME members and nonmembers
Fluid Jet Control Devices (1962), $7.50
Fluid Meters, Their Theory and Application (1959), $10.00
Frequency Response (1956), $7.50
Friction and Wear in Machinery (Volumes 11, 12, 13 and 14), $7.50 each
Gantt on Management (1962), $9.00 ($6.00 to ASME members)
General Discussion on Heat Transfer (1951), $10.00
Handbook of Consulting Practice for Mechanical Engineers (1960), $3.00
Handbook for Small Sawmill Operators—1957 $2.50
Heat Processing and Control in Industrial Furnaces and in Fluidized Beds (1961), $2.50
High-Pressure Measurement (1963), $10.95
History of the Boiler Code (1955), $4.00
Homes of Some Engineering Societies (1956), $2.00
Ideas, Inertia, and Achievement (1960), $5.00 (no discount allowed)
International Developments in Heat Transfer, Proceedings of the 1961–62 Heat Transfer Conference (1963), $35.00
International Research in Production Engineering (1963), $25.00
Joint International Conference on Creep (1963), $25.00
Manual on Cutting of Metals (1952), $10.00
Manufacturers of Dust and Fume Control Equipment (1960), $2.50
Marks' Mechanical Engineers' Handbook—$25.00
Materials Handling Handbook (1958), $20.00
Measurement in Unsteady Flow (1962), $7.50
Mechanical Impedance Methods for Mechanical Vibration (1958), $5.50
Engineering Tables (1956), $17.50
Metals Engineering: Design (1953), $12.00
Metals Engineering: Processes (1958), $13.50
Metals Properties (1954), $11.00
Multi-Phase Flow Symposium (1963), $6.50
Nuclear Engineering
  Advances in Nuclear Engineering, 2 volumes (1957), $25.00
  Hot Laboratory Operation and Equipment (1957), $12.00
Oil and Gas Engine Power Cost Report for 1959, 1960, and 1961, $4.00
Power Reactors (1959), $5.00
Principles of Optimalizing Control Systems (1951), $2.00
Proceedings of Joint Conference on Combustion (1955), $12.50
Proceedings of Conference on Fatigue of Metals (1957), $15.00
Proceedings of Conference on Lubrication and Wear (1957), $23.00
Proceedings, 1958 Materials Handling Conference, $5.00
Proceedings of
  1956 Oil and Gas Power Division Conference, $4.00
  1957 Oil and Gas Power Division Conference, $4.00
  1958 Oil and Gas Power Division Conference, $4.00
  1961 Oil and Gas Power Division Conference, $5.00
Proceedings, 1959 International Rubber Conference—$12.50
Progress in International Research on Thermodynamic and Transport Properties (1962), $24.00
Properties of Steam at High Pressures (1956), $1.50
Pressure Vessel and Piping Design (1960), $12.50
Random Vibration in Mechanical Systems (1963), $6.50
Recommended Practices for:
  Design of Marine Propulsion Turbine Lubrication Systems, ASME Std. No. 111 (1960), $1.50
  Cleaning of Turbine Lubrication Systems (1952), $2.00
  Design of Turbine Lubricating Systems, ASME Std. No. 108 (1955), $2.00
Reflections on the Motive Power of Heat, $3.00
Reheat Turbines and Boilers (1952), $2.50
Research and Test Reactors (1959), $7.50
Resistance of Various Materials to Cavitation Damage (1957), $4.00
Small Plant Management (1960), $10.50
Shock and Structural Response (1960), $4.50
Shock and Vibration Instrumentation (1956), $5.00
Spray Literature Abstracts (1959), $12.00
Structural Damping (1959), $4.25
Structures for Thermal Flight (1956), $4.00
Symposium on Water Hammer (1933 publication, reprinted 1949), $4.00
The Fourth U. S. National Congress of Applied Mechanics—$40 to ASME members and nonmembers
Theory of Elastic Thin Shells (1961), $15.00
Theory and Fundamental Research in Heat Transfer (1963), $10.00
Theory of Special Casting Methods (Russian Translation) (1962), $8.00
Second U. S. National Congress of Applied Mechanics Proceedings (1955), $20.00 (no discount allowed)
Third U. S. National Congress of Applied Mechanics Proceedings (1958), $25.00 (no discount allowed)
The Role of Viscosity in Lubrication (1960), $4.50
Thermodynamic and Transport Properties of Gases, Liquids, and Solids (1959), $12.50
Unwritten Laws of Engineering (1944), $0.50
Use of Models and Scaling in Shock and Vibration (1963), $6.00
Viscosity of Lubricants Under Pressure (1954), $3.00
Water Hammer in Hydraulics and Wave Surges in Electricity (1961), $15.00
Transactions (bound), 1947, 1950, 1951, 1953, 1955–1958, $30.00 each ($15.00 to ASME members)
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Frank and Lillian Gilbreth, $5.50
I Remember—Autobiography of Dexter S. Kimball, $4.00
Modern Jupiter—The Story of Charles Proteus Steinmetz, $3.50
Professional Amateur—The Biography of Charles Franklin Kettering, $4.50
Scientific Blacksmith—Autobiography of Mortimer E. Cooley, $3.75

Periodicals

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Transactions of the ASME.
  Series A—*Journal of Engineering for Power*
  Series B—*Journal of Engineering for Industry*
  Series C—*Journal of Heat Transfer*
  Series D—*Journal of Basic Engineering*
  Series E—*Journal of Applied Mechanics*
Annual subscription rates to nonmembers: $15.00 for each Journal, $27.00 for any two, $38.00 for any three, $45.00 for any four, and $50.00 for all five. 50% less to ASME members. Seventy-five cents should be added to the price of each Quarterly if mailed outside the United States.
Applied Mechanics Reviews (published monthly)
$25.00 to nonmembers and $12.50 to ASME members
Mechanical Engineers Catalog (published annually; distributed to members upon request)
PMM—Journal of Applied Mathematics and Mechanics (an English translation of the Soviet Bimonthly), $35.00 annually to nonmembers and $28.00 to ASME members

ASME Miscellaneous Papers, 1962

THE papers in this list were presented at ASME meetings during 1962 but were not published in the TRANSACTIONS OF THE ASME or in full in *Mechanical Engineering*. They can be consulted in the Engineering Societies Library where photostatic copies may be obtained and quotations will be given upon request.

A

ADAMS, J. H.
Design of a large door for the JPL space simulator. Paper No. 62—WA-300.

ADLER, PHILIP and HAROLD MARGOLIN
Calibration experiments with a tetrahedral-type pressure apparatus. Paper No. 62—WA-314.

AGARWAL, J. C.
Technical considerations of fuel injection into the blast furnace. Paper No. 62—WA-286.

ALABACK, JAMES, DONALD EPPILEK, and JOHN DIETRICH
The Whirlpool clothes dryer redesign.

ANDERSON, J. H.
Internal bearings in centrifugal gas compressors. Paper No. 62—WA-179.

ANDERSON, J. T. and J. M. BOTJE
Spatial truncation error analysis. Paper No. 62—HT-27.

ANGULO, EARL D.
Explorer X—Evolution of structural design. Paper No. 62—Av-28.

ARAD-VILENTCHUK, NATHAN
Wearing rings and centrifugal pump efficiency. Paper No. 62—MPE-2.

ARUTUNOFF, SERGEI
Construction and economic advantages of the electric submergible pump. Paper No. 62—Pet-44.

ATKINSON, R. P. and D. K. THOMPSON
The Allison Model 501 gas turbine in industrial application.

ATTERBURY, T. J.
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